Risk, Disaster and Resilience MSc Management Pathway

2020/21 entry

www.ucl.ac.uk/rdr/

Fukushima nuclear reactor
Japan
Risk, Disaster and Resilience  MSc Management Pathway

Natural and anthropogenic hazards, humanitarian and health crises, conflict, and climate change create challenges for businesses and demand managerial skills to respond. This programme with the management pathway fills a business and organisational need for graduates with management skills and innovative approaches to increase resilience.

Programme themes

**Disaster Management**
- Managerial skills to face disasters and to reduce risks
- Entrepreneurial mind and innovative approaches to build resilience
- Business continuity planning to manage real emergencies

**Building Resilience**
- What are the barriers to risk and disasters reduction and how do we overcome them?

**Understanding Vulnerability**
- From fragility curves describing damage to buildings to social vulnerability of individuals and society

**Quantifying Risk**
- What is risk and how do we measure it?
- Components of risk: exposure, hazard, vulnerability

**Multidisciplinary Holistic Approaches**
- Integrating scientific knowledge into disaster risk reduction research, policy and practice
- Communicating with stakeholders

**Managing Disasters**
- How to apply plans to manage real emergencies

Teaching and learning

Learn from world-class researchers and professionals delivering the programme through a combination of lectures, class discussions, problem-solving exercises, practicals, field trips, directed reading, student-led dialogues, and a practitioner-led real-time disaster scenario event. Assessment is by individual and group presentations, coursework, written examinations and a research project.

Why study at UCL-IRDR?

UCL is one of the world’s leading universities, regularly featuring in the top 10 in global rankings.

**The Institute for Risk and Disaster Reduction (IRDR)** leads multidisciplinary research, knowledge exchange and advanced teaching across UCL. **School of Management** ranked among the top 3 in the UK for Business and Management studies. It focuses on technology, innovation and entrepreneurship.

As a student, you will be able to attend the optional modules, to join the active seminar series, and to participate in the high-profile public discussion meetings of both IRDR and School of Management.

“London itself is an unparalleled breeding ground of ideas for anyone interested in research” (MSc student 2015/16).

**Careers**

Whether you wish to pursue a career in risk and disaster reduction or to start up your own enterprise, we are here to support you. We run an annual Careers and Opportunities Forum which offers expert and targeted advice, and hosts stalls from a range of employers and headhunters in the field of risk and disaster reduction.

We support entrepreneurial initiatives by offering enterprise training and connecting students with resources available at UCL such as business mentors and start-up incubators. Students have chances to undertake their desertion projects with reputation organisations in the IRDR network such as London First and Resilience First. Graduates from this pathway will be highly employable in companies, governments, NGOs and around the world, equipped with a scientific understanding and management skills of risks and disasters reduction.

Some career destinations of recent IRDR graduates:

- Business Continuity & Resilience Consultant, PwC
- Business Continuity Consultant, ARUP
- Underwriting Assistant, MS Amlin
- Catastrophe Analyst, Barbican Insurance Group
- Reinsurance Claims Management Executive AXA Global Re, Paris
- Senior Analyst, RMS (Risk Management Solutions)
- Disaster Risk Management Consultant, World Bank
- Project Officer, Global Risk Forum, Davos
- Risk & Business Continuity Officer, County Fire & Rescue
- Emergency Planning and Business Continuity Officer, UK Local Government
## Degree Programme Modules

### Two compulsory core taught modules (15 credits each)

<table>
<thead>
<tr>
<th>1 Integrating Science into Risk &amp; Disaster Reduction</th>
<th>2 Emergency &amp; Crisis Planning and Management</th>
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<tbody>
<tr>
<td>Quantitative risk assessment</td>
<td>Risk transfer &amp; communication</td>
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<tr>
<td>Command procedures</td>
<td>Warning and evacuation</td>
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### Two compulsory programme-specific core modules (15 credits)

<table>
<thead>
<tr>
<th>1 Natural &amp; Anthropogenic Hazards &amp; Vulnerability</th>
<th>2 Advanced Emergency &amp; Crisis Planning and Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific causes</td>
<td>Social &amp; economic vulnerability</td>
</tr>
<tr>
<td>Methodology and techniques</td>
<td>Policy and legal contexts</td>
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### Two compulsory taught skills modules (15 credits each)

<table>
<thead>
<tr>
<th>1 Data Analysis &amp; Interpretation</th>
<th>2 Practice &amp; Appraisal of Research</th>
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<tbody>
<tr>
<td>Statistical methods</td>
<td>R &amp; GIS</td>
</tr>
<tr>
<td>Qualitative research methods</td>
<td>Project design &amp; management</td>
</tr>
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### Two optional taught modules (15 credits each) from Non-IRDR optional modules are marked with an asterisk (*)

<table>
<thead>
<tr>
<th>1 Social Network Analysis *</th>
<th>School of Management</th>
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<tbody>
<tr>
<td>Network dynamics</td>
<td>Blockmodeling</td>
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<tr>
<td>Experiential learning</td>
<td>Managerial decision making</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>3 Decision &amp; Risk Analysis *</th>
<th>School of Management</th>
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<tbody>
<tr>
<td>Business analysis</td>
<td>Computer workshops</td>
</tr>
<tr>
<td>Business planning</td>
<td>Finance</td>
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<thead>
<tr>
<th>5 Entrepreneurship: Theory &amp; Practice *</th>
<th>School of Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business lifecycle</td>
<td>Business operation</td>
</tr>
<tr>
<td>Project administration</td>
<td>Risk management</td>
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</tbody>
</table>

All optional modules are subject to availability and particular modules may not be possible in any given year.

### Independent project (60 credits)

The independent research project culminates in a 10,000 to 12,000 word dissertation and poster presentation. Projects may be field, theory or modelling based and can be conducted in collaboration with external partners including industry, international research organizations or NGOs.

### Field studies and group working

Current field visits include: the Thames Barrier and disaster management; Cambridge flood hazard; a disaster scenario exercise with a partner organization; the Blacknest Seismological Observatory; the Met Office; Southwest England for integrated group projects covering hazard mapping, vulnerability assessment, and critical infrastructure assessment, with Hinkley Point nuclear power station as an example.
MSc Risk, Disaster and Resilience Management Pathway Key information

Programme starts
September 2020

Modes and duration
Full time: 1 year        Part time: 2 years

Tuition fees (2020/21)
UK/EU: £11,830 (FT) £5,975(PT)
Overseas: £24,980 (FT) £12,470 (PT)

Scholarships
UCL offers a selection of scholarships for supporting postgraduate studies. Details of funding opportunities can be found at: www.ucl.ac.uk/scholarships. Further advice and programme-specific scholarships information can be obtained from the Masters Programmes section of the IRDR website.

Application dates
Open: November 2019        Close: 28 August 2020

Note on fees: The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information can be viewed on the UCL Current Students website.

Entry requirements
Normally a minimum of an upper second-class UK Bachelor's degree or an overseas qualification of an equivalent standard. This multidisciplinary programme accepts students from a wide range of subject areas, such as social sciences, physical sciences, and humanities.

Mathematics requirements
None, but there are some quantitative methods in the course.

English language requirements
If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The English language level for this programme is: Good

Further information can be found on our website.

International students
Country-specific information, including details of when UCL representatives are visiting your part of the world, can be obtained from the UCL International Students website.